

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Systems of THREE Equations Word Problem**

**The Situation:** Audrey inherited \$25,000 from her great-great-great aunt. She invested part of the money in a money market account, part in municipal bonds and part in a mutual fund. After one year, she earned a total of \$1,620 in simple interest from all three accounts. The money market account paid 6% simple annual interest, the municipal bonds 7% interest and the mutual fund 8% interest.

Audrey invested \$6,000 more in the bonds than the mutual funds.

How much money did Audrey invest in each account?

1. Define three variables that make sense for the situation.

2. Write three equations based on the three parts of the word problem.

3. Solve the systems of three equations.

**TURN OVER FOR CHECKING!**

4. Check your work via substitution and reality. Substitute your answers into ALL THREE equations and WRITE OUT your reality check.

5. Write your answers with labels.